

Vienna Instruments

Trumpet II

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Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Vienna Instruments! This document contains the mapping information for the Vienna Instruments Trumpet II. You will find in it a comprehensive survey of the articulations/Patches content, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary. Here's an overview of the articulations/Patches contained in this Collection:

Short notes: Staccato, portato short and medium

Long notes: Sustained with normal, progressive, and without vibrato; marcato; upward slides with and without vibrato; falls

Dynamics: Medium and strong crescendo and diminuendo (4 durations each); crescendo-diminuendo with and without vibrato (4 durations each); fortepiano, sforzato, sforzatissimo

Flutter tonguing: Normal and crescendo

Interval performances: Legato with and without vibrato, portamento tight and loose, fast legato, trills

Repetition performances: Legato, portato, staccato; portato and staccato crescendo

Fast repetitions: 16ths at 140 to 190, and 210 BPM

The velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements. The Patch information also lists the velocity layers in detail.

Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is not only used for legato but also for other articulations like the strings' portamento, marcato, or détaché and spiccato articulations.

Interval performances also contain at least two legato repetitions for every note which alternate automatically whenever you strike a key more than once. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But naturally, it's mingling legato with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM.

Another variety of interval performance you will come across is the "perf-leg_sus" Patch. These Patches also contain normal legatos, only the target note of each interval is crossfaded into a looped sustain. They can be used for slower pieces with long notes; however, you should use them with circumspection, since plain legatos sound more lively because they not only render the interval transitions as they were played, but also have different target samples for every interval instead of the same sustained note: When you play, e.g., c–e and then c#–e with normal legato, you will get two different "e" tones; with sus-legato you won't.

Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes 101–112 instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes.

Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

52 Trumpet-Bb

Patches

01 SHORT + LONG NOTES

Range: E3–F6



Staccato, portato short and long
Sustained with normal, progressive, and without vibrato
Marcato with vibrato
Upward slides with and without vibrato
Falls

01 TrBb_staccato

Samples: 352 RAM: 22 MB

Staccato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
4 Alternations

02 TrBb_portato_short

Samples: 352 RAM: 22 MB

Portato, short
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
4 Alternations

03 TrBb_portato_medium

Samples: 352 RAM: 22 MB

Portato, medium
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
4 Alternations

11 TrBb_sus_Vib

Samples: 409 RAM: 25 MB

Sustained, with vibrato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
3 Alternations
AB switch: release normal/falls

12 TrBb_sus_Vib-progr

Range: E3–D#6 Samples: 385 RAM: 24 MB

Sustained, with progressive vibrato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
3 Alternations
AB switch: release normal/falls

13 TrBb_sus_Vib-marc

Samples: 233 RAM: 14 MB

Sustained, marcato with vibrato
2 velocity layers: 0–108 mf; 109–127 f
Release samples
2 Alternations
AB switch: release normal/falls

14 TrBb_sus_Vib-slide Range: E3–C#6 Samples: 202 RAM: 12 MB

Sustained, upward slides, with vibrato
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 Release samples
 AB switch: release normal/falls

15 TrBb_sus_noVib Samples: 403 RAM: 25 MB

Sustained, without vibrato
 4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
 Release samples
 3 Alternations
 AB switch: release normal/falls

16 TrBb_sus_noVib-slide Range: E3–C#6 Samples: 202 RAM: 12 MB

Sustained, upward slides, without vibrato
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 Release samples
 AB switch: release normal/falls

21 TrBb_falls Range: E3–D6 Samples: 57 RAM: 3 MB

Falls
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

02 DYNAMICS

Range: E3–F6



Medium crescendo and diminuendo with vibrato, 1.5, 2, 3, and 4 sec.
 Strong crescendo and diminuendo, without vibrato, 1.5, 2, 3, and 4 sec.
 Crescendo-diminuendo with and without vibrato, 2, 3, 4, and 6 sec.
 Fortepiano, sforzato, sforzatissimo

01 TrBb_dyn-me_Vib_1'5s (2/3/4) Samples: 84 RAM: 5 MB

Medium crescendo and diminuendo, with vibrato, 1.5, 2, 3, and 4 sec.
 2 velocity layers: 0–88 p–mf/mf–p; 89–127 mf–f/f–mf
 AB switch: crescendo/diminuendo

11 TrBb_dyn-str_noVib_1'5s (2/3/4) Samples: 42 RAM: 2 MB

Strong crescendo and diminuendo, without vibrato, 1.5, 2, 3, and 4 sec.
 1 velocity layer
 AB switch: crescendo/diminuendo

21 TrBb_pfp_Vib_2s (3/4/6) Samples: 42 RAM: 2 MB

Crescendo-diminuendo with vibrato, 2, 3, 4, and 6 sec.
 2 velocity layers: 0–88 p; 89–127 f

31 TrBb_pfp_noVib_2s (3/4/6) Samples: 42 RAM: 2 MB

Crescendo-diminuendo without vibrato, 2, 3, 4, and 6 sec.
 2 velocity layers: 0–88 p; 89–127 f

41 TrBb_fp	Samples: 63	RAM: 3 MB
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Fortepiano
1 velocity layer
3 Alternations

42 TrBb_sfz	Samples: 63	RAM: 3 MB
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Sforzato
1 velocity layer
3 Alternations

43 TrBb_sffz	Samples: 63	RAM: 3 MB
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Sforzatissimo
1 velocity layer
3 Alternations

03 FLATTER	Range: E3–F6	
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Flutter tonguing, normal and crescendo

01 TrBb_flatter	Samples: 42	RAM: 2 MB
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Flutter tonguing, sustained

02 TrBb_flatter_cre	Samples: 21	RAM: 1 MB
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Flutter tonguing, crescendo
1 velocity layer

10 PERF INTERVAL	Range: E3–D#6	
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Legato with and without vibrato
Portamento tight and loose

01 TrBb_perf-legato_Vib	Samples: 967	RAM: 60 MB
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Legato, with vibrato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: release normal/falls

02 TrBb_perf-legato_noVib	Samples: 967	RAM: 60 MB
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Legato, without vibrato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: release normal/falls

03 TrBb_perf-portamento_tight

Samples: 967 RAM: 60 MB

Portamento, tight

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: release normal/falls

04 TrBb_perf-portamento_loose

Samples: 967 RAM: 60 MB

Portamento, loose

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: release normal/falls

11 PERF INTERVAL FAST

Range: E3–D#6



Legato, fast

01 TrBb_perf-legato_fa

Samples: 967 RAM: 60 MB

Legato, fast

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: release normal/falls

12 PERF TRILL

Range: E3–D#6



Trills, minor and major 2nd; all other intervals legato

01 TrBb_perf-trill

Samples: 1647 RAM: 102 MB

Trills, minor and major 2nd; all other intervals legato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: release normal/falls

13 PERF REPETITION

Range: E3–F6



Legato, portato, staccato

Portato and staccato crescendo, 9 repetitions

01 TrBb_perf-rep_leg

Samples: 315 RAM: 19 MB

Legato repetitions

3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

02 TrBb_perf-rep_por

Samples: 567 RAM: 35 MB

Portato repetitions

3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

03 TrBb_perf-rep_stac	Samples: 567	RAM: 35 MB
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Staccato repetitions

3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

11 TrBb_perf-rep_cre9_por	Samples: 189	RAM: 11 MB
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Portato crescendo, 9 repetitions

12 TrBb_perf-rep_cre9_sta	Samples: 189	RAM: 11 MB
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Staccato crescendo, 9 repetitions

15 FAST REPETITION

Range: E3–E6



Staccato, 16 repetitions

16ths at 140 to 190, and 210 BPM

01 TrBb_fast-rep_140 (150/160/170/180/190/210)	Samples: 126	RAM: 7 MB
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Staccato, 16 repetitions

16ths at 140 to 190, and 210 BPM

3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

Release samples

98 RESOURCES

01 Perf Rep dyn

Range: E3–F6

Extracted dynamics repetitions, portato and staccato

01 TrBb_rep_cre9_por-1 (2/3/4/5/6/7/8/9)	Samples: 21	RAM: 1 MB
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Extracted repetitions: Portato, crescendo, 1st to 9th repetition

02 TrBb_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)	Samples: 21	RAM: 1 MB
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Extracted repetitions: Staccato, crescendo, 1st to 9th repetition

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - A Standard-Advanced

01 TrBb Articulation Combi

Samples: 2215 RAM: 138 MB

Staccato, portato short and medium

Sustained with normal, without, and with progressive vibrato

Fortepiano, sforzato, sforzatissimo

Flutter tonguing normal and crescendo

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1
V1	staccato	sus vibrato	fortepiano	flutter normal
V2	portato short	sus no vibrato	sforzato	flutter crescendo
V3	portato medium	sus prog. vibrato	sforzatissimo	flutter crescendo

02 TrBb Perf-Legato Speed

Samples: 1925 RAM: 120 MB

Legato with and without vibrato, tight portamento

Fast legato

Matrix switches: Horizontal: Speed, 2 zones

Vertical: Modwheel, 3 zones

	slow	fast
V1	legato vibrato	legato fast
V2	legato no vibrato	%
V3	portamento tight	%

03 TrBb Perf-Trill Speed

Samples: 2605 RAM: 162 MB

Legato with and without vibrato, tight portamento

Trills

Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

Vertical: Modwheel, 3 zones

	slow	fast
V1	legato vibrato	trills
V2	legato no vibrato	%
V3	portamento tight	%

04 TrBb Short+Long notes

Samples: 1109 RAM: 69 MB

Staccato, portato short and medium

Sustained without, with normal and progressive vibrato, and marcato

Slides, sustained with and without vibrato

Falls

Matrix switches: Horizontal: Keyswitches, C1–D#1

Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1
V1	staccato	sus vibrato	sus no vibrato	falls
V2	portato short	sus marcato vibrato	sus prog. vibrato	falls
V3	portato medium	sus slide vibrato	sus slide no vib.	falls

05 TrBb Dynamics**Samples: 1029 RAM: 64 MB**

Dynamics

Medium and strong crescendo and diminuendo, 1.5, 2, 3, and 4 sec.

Crescendo-diminuendo, 2, 3, 4, and 6 sec.

Fortepiano, sforzato, sforzatissimo

AB switch: crescendo/diminuendo

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 5 zones

	C1	C#1	D1	D#1
dyn.medium	1.5 sec.	2 sec.	3 sec.	4 sec.
dyn.strong	1.5 sec.	2 sec.	3 sec.	4 sec.
pfp vib.	2 sec.	3 sec.	4 sec.	6 sec.
pfp no vib.	2 sec.	3 sec.	4 sec.	6 sec.
sfz	fp	sfz	sffz	sffz

Matrix - B Repetitions**11 TrBb Perf-Repetitions - Combi****Samples: 1449 RAM: 90 MB**

Repetition performances: Legato, portato, staccato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
repetitions	legato	portato	staccato

12 TrBb Perf-Repetitions - Speed**Samples: 1449 RAM: 90 MB**

Repetition performances: Legato, portato, staccato

Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
repetitions	legato	portato	staccato

13 TrBb Fast-Repetitions**Samples: 504 RAM: 31 MB**

Fast repetitions, 140 to 190, and 210 BPM

Matrix switches: Horizontal: Keyswitches, C1–F#1

	C1	C#1	D1	D#1	E1	F1	F#1
speed/BPM	140	150	160	170	180	190	210

Matrix - C Keyswitch Vel**21 TrBb Portato - cre9****Samples: 189 RAM: 11 MB**

Portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

22 TrBb Staccato - cre9**Samples: 189 RAM: 11 MB**

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
staccato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

23 TrBb Combi - cre9**Samples: 378 RAM: 23 MB**

Portato, staccato: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

Presets**TrBb VSL Preset****Samples: 6754 RAM: 422 MB**

Matrices:

02 TrBb Perf-Legato Speed

03 TrBb Perf-Trill Speed

01 TrBb Articulation Combi

11 TrBb Perf-Repetitions - Combi

23 TrBb Combi - cre9

13 TrBb Fast-Repetitions

Matrix keyswitches: C2–F2